

In the Claims

For the convenience of the Examiner, all pending claims of the present Application are shown below whether or not an amendment has been made. Please amend the claims as follows:

1. (Currently Amended) A method for communicating a clock signal over an optical link, comprising:

receiving a multimodulated optical information signal comprising non-intensity modulation for a data signal and intensity modulation for a clock signal;

recovering the clock signal based on the intensity modulation of the multimodulated optical information signal;

converting the non-intensity modulation for the data signal to intensity modulation for the data signal after the recovering the clock signal based on the intensity modulation of the multimodulated optical information signal; and

recovering the data signal from the intensity modulation for the data signal using the clock signal.

2. (Original) The method of Claim 1, wherein the non-intensity modulation comprises a phase modulation of a carrier signal.

3. (Original) The method of Claim 1, wherein the non-intensity modulation comprises a frequency modulation of a carrier signal.

4. (Original) The method of Claim 1, wherein the data signal is phase shift keyed in the multimodulated optical information signal and the clock signal is intensity shift keyed in the multimodulated optical information signal.

5. (Currently Amended) A system for communicating a clock signal over an optical link, comprising:

means for receiving a multimodulated optical information signal comprising non-intensity modulation for a data signal and intensity modulation for a clock signal;

means for recovering the clock signal based on the intensity modulation of the multimodulated optical information signal;

means for converting the non-intensity modulation for the data signal to intensity modulation for the data signal after the recovering the clock signal based on the intensity modulation of the multimodulated optical information signal; and

means for recovering the data signal from the intensity modulation for the data signal using the clock signal.

6. (Original) The method of Claim 5, wherein the non-intensity modulation comprises a phase modulation of a carrier signal.

7. (Original) The method of Claim 5, wherein the non-intensity modulation comprises a frequency modulation of a carrier signal.

8. (Original) The method of Claim 5, wherein the data signal is phase shift keyed in the multimodulated optical information signal and the clock signal is intensity shift keyed in the multimodulated optical information signal.

9. (Currently Amended) A optical receiver, comprising:
an interface for receiving a multimodulated optical information signal comprising non-intensity modulation for a data signal and intensity modulation for a clock signal;
a clock recovery element operable to recover the clock signal based on the intensity modulation of the multimodulated optical information signal;
a data recovery element operable to recover the data signal from the non-intensity modulation of the multimodulated optical information signal based on the clock signal; and
wherein the multimodulated optical information signal is provided to the clock recovery element at a point prior to the data recovery element.

10. (Original) The system of Claim 9, wherein the non-intensity modulation comprises a phase modulation of a carrier signal.

11. (Original) The system of Claim 9, wherein the non-intensity modulation comprises a frequency modulation of a carrier signal.

12. (Original) The system of Claim 9, wherein the data signal is phase shift keyed in the multimodulated optical information signal and the clock signal is intensity shift keyed in the multimodulated optical information signal.

13. (Previously Presented) A method for communicating a clock signal over an optical link, comprising:

receiving a multimodulated optical information signal comprising non-intensity modulation for a data signal and intensity modulation for a clock signal;

recovering the clock signal based on the intensity modulation of the multimodulated optical information;

converting the non-intensity modulation for the data signal to intensity modulation for the data signal after recovering the clock signal; and

recovering the data signal from the intensity modulation for the data signal using the clock signal.

14. (Previously Presented) The method of Claim 13, wherein the non-intensity modulation comprises a phase modulation of a carrier signal.

15. (Previously Presented) The method of Claim 13, wherein the non-intensity modulation comprises a frequency modulation of a carrier signal.

16. (Previously Presented) The method of Claim 13, wherein the data signal is phase shift keyed in the multimodulated optical information signal and the clock signal is intensity shift keyed in the multimodulated optical information signal.